

**Resource, Reliability and Environmental Concerns of
Aging Power Plant Operations and Retirements**

California Energy Commission

APPENDIX B
Expected Additions and Retirements

Appendix B: Projected Additions and Retirements, 2005-2008

Additions	Developer	ISO Zone/Control Area	Fuel	Dependable Capacity			
				2005 (1)	2006	2007	2008
Magnolia	So Cal PPA	LADWP	Natural gas	328			
Haynes upgrades (2)	LADWP	LADWP	Natural gas	33			16
Pine Tree Canyon (3)	LADWP	LADWP	Wind	29			
Cosumnes	Sacramento MUD	SMUD	Natural gas	500			
Pico Power	Silcon Valley Power	NP15	Natural gas	147			
Kings River Peaker	Kings River Conservation Dist	ZP26	Natural gas	97			
Riverside ERC	City of Riverside	SP15	Natural gas	96			
RAMCO Chula Vista (4)	RAMCO	SP15	Natural gas	45			
Metcalf (5)	Calpine	NP15	Natural gas		600		
Malburg	City of Vernon	SP15	Natural gas	134			
Ripon	Modesto Irrigation District	NP15	Natural gas	95			
Pastoria Phase 1	Calpine	SP15	Natural gas	250			
Pastoria Phase 2	Calpine	SP15	Natural gas		500		
Walnut Energy Center	Turlock ID	NP15	Natural gas		250		
San Francisco Peakers	City of San Francisco	NP15	Natural gas		180		
Solano Wind Additions (3)	SMUD	SMUD	Wind		18		
Envirepel (4)	Envirepel	SP15	Biomass		40		
Mountainview	Edison Mission Energy	SP15	Natural gas		1056		
Palomar Escondido (4)	Sempra Energy	SP15	Natural gas		546		
Roseville Combined Cycle (7)	City of Roseville	NP15	Natural gas			160	
Salton Sea #6 (8)	CalEnergy	IID	Geothermal			185	
Otay Mesa (4)	Calpine	SP15	Natural gas				510
El Centro 3 upgrades (6)	Imperial Irrigation District	IID	Natural gas				37
Total				1754	3190	345	563
Known Retirements	Owner	ISO Zone/Control Area	Fuel	Dependable Capacity			
				2005	2006	2007	2008
Mohave (9)	So Cal Edison / LADWP	SP15	Coal		-916		
Hunters Point	PG&E	NP15	Natural gas		-219		
Total					-1135		
Net Additions				1754	2055	345	563

- (1) On line as of August 1; does not include renewables which may come on line in response to RPS solicitations, estimated at 300 - 800 MW during 2005 – 2008
- (2) 1,175 MW of repowered capacity replacing 1,126 MW of aging capacity. Haynes 3 & 4 repowering (2005) 575 MW replacing 542 MW; Haynes 5 & 6 repowering (2008) 600 MW replacing 584 MW
- (3) Dependable capacity of wind rated at 24% of nameplate
- (4) Long-term contract with SDG&E
- (5) Pursuant to agreement with DWR; expected on line 8/1/05
- (6) 85 MW of new capacity replacing 48 MW of aging capacity
- (7) Operating hours limited until additional offsets obtained, but should generate at full output during peak.
- (8) 20-year contract with Imperial Irrigation District for 177 MW
- (9) Share of facility owned by California utilities